

On Some Phosphorus-Containing Polyamides

SCV/62-58-6-25/37

with the lengthening of the carbon chain of diamine from tetramethylene to decamethylene diamine softening-temperatures are reduced. At the same time, fluctuation becomes weaker. There are 2 tables and 6 references, 4 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyudineniy Akademii nauk SSSR  
(Institute of Elemental-organic Compounds AS USSR)

SUBMITTED: January 27, 1958

1. Amides--Chemical properties    2. Phosphorus--Chemical effects  
3. Condensation reactions

Card 2/2

VINOGRADOVA, S.V.; KORSHAK, V.V.; KOLESNIKOV, G.S.; ZHUBANOV, B.A.

Heterochain polyesters. Part 17: Polyesters of phosphorylated dicarboxylic acids. Vysokom. soed. 1 no.3:357-361 Mr '59.  
(MIRA 12:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.  
(Esters)

5 (3)

## AUTHORS:

Rafikov, S.R., Suvorov, B. V.,  
Zhubanov, B. A., Khmura, M. I.,  
Prokof'yeva, M. V.

SOV/20-126-6-39/67

## TITLE:

Synthesis of Nicotinic Acid and Its Amides by Way of Nicotino-nitrile (Sintez nikotinovoy kisloty i yeze amida cherez nikotinonitril)

## PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 6, pp 1286 -1288  
(USSR)

## ABSTRACT:

In spite of an increasing demand of the substances mentioned in the title (Refs 1,2) the methods of production applied, give only low yields (Refs 3-5). The authors produced these two substances by saponification of nicotinic acid nitrile which is formed in high yields in an oxidative ammonolysis of the  $\beta$ -picoline on vanadium catalysts (Refs 6,7).  $\beta$ -picoline was isolated from the corresponding industrially produced fraction. The mentioned ammonolysis was carried out in a continuous flow apparatus. Granulated tin-vanadate served as catalyst, air was used as oxidizer. Ammonia was introduced into the reaction zone in the form of a 20% aqueous solution. The duration of contact was 0.2 - 0.6 sec. Nicotino nitrile and the  $\beta$ -picoline which was

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of Nicotino-nitrile SOV/20-126-6-39/67

not reacted were extracted by sulphuric ether, the extract was dried over roasted sodium sulphate and fractionated. In the saponification by means of water under pressure (with some drops of water - ammonia) nicotinic acid amide (melting point 129-130°) and nicotinic acid (232-234°) were formed. Their yield depends on the reaction conditions of saponification. By changing these conditions either the acid or the amide may be obtained with quantitative yields. The duration of contact is without importance in the temperature range investigated for the β-picoline ammonolysis. Figure 1 shows that if the reaction temperature is increased from 310 to 370° the nicotino-nitrile yield is increased. A further temperature increase up to 400° reduces this yield. In this connection the CO<sub>2</sub> formation increases rapidly. It may therefore be assumed that at temperatures >370° reactions of an intensive oxidation take place besides the oxidative ammonolysis of β-picoline. Since the maximum yield of nicotino-nitrile (65% of the theoretically computed yield) and the minimum CO<sub>2</sub> formation were attained in the case of a 20-fold ammonia excess the processes of intensive oxidation are

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suppressed by ammonia. Thus, the mentioned ammonolysis produces high yields (over 65%) of nicotinic acid or nicotinamide (over 60%) with respect to the initial product. Oxidizers which are shortage goods are not used. Standard apparatus is necessary. There are 1 figure and 9 references, 6 of which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk KazSSR (Institute of Chemical Sciences of the Academy of Sciences of the KazakhSSR)

PRESENTED: October 20, 1958, by M. M. Shemyakin, Academician

SUBMITTED: October 23, 1958

Card 3/3

RAFIKOV, S.R.; DEREVYANCHENKO, V.P.; ZHUBANOV, B.A.

Thermal stability of para- and meta-xylylenediamines. Izv.  
AN Kazakh. SSR. Ser. khim. nauk 15 no.1:30-37 Ja-Mr '65.  
(MIRA 18:12)

1. Submitted Sept. 30, 1964.

ACC NR: AP6032913

SOURCE CODE: UR/0360/66/000/003/0101/0102

AUTHOR: Rafikov, S. R.; Derevyanchenko, V. P.; Zhubanov, B. A.

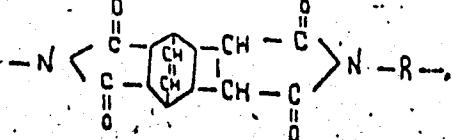
ORG: none

TITLE: Synthesis of polyimides from the adduct of maleic anhydride with beryene acid and various diamines

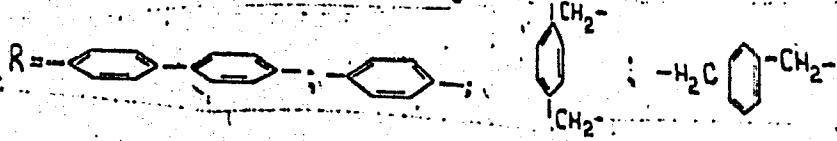
SOURCE: AN KazSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 101-102

TOPIC TAGS: polyimido acid, polyimide, heat resistant polymer, heat resistant plastic, maleic anhydride

ABSTRACT: The authors have synthesized aromatic and aliphatic-aromatic polyimides having the groups



where



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UDC: 541.6:542.91

ACC NR: AP6032913

in the backbone. The polymers were prepared from 3,6-endoethylene-9-bicyclo-(2,4)-octane-1,2,4,5 tetracarboxylic anhydride and various diamines in N,N-dimethylformamide. The polyimides were prepared in two steps: 1) formation of a dimethylformamide soluble poly(amido acid); and 2) conversion of the acid to a polyimide by gradual heating to 300C. The synthesized polymers are light-yellow substances insoluble in the common organic solvents. They fuse at 450—500C, and decompose at higher temperatures. The poly(amido acids) form rigid transparent films from solutions.

SUB CODE: 11, 07/ SUBM DATE: 06May66/ OTH REF: 002/

Card 2/2

ZHUBANOV, B.A.; RAFIKOV, S.R.; PAVLETCENKO, L.V.; MOSHKEVICH, S.A.; AKIMOVA, N.I.

Synthesis of polymers. Report No.15: Synthesis of polyamides based  
on m- and p-xylylenediamines, adipic, sebacic, and isophthalic acids.  
Trudy Inst. khim. nauk AN Kazakh. SSR 11:36-41 '64. (MIRA 17:11)

ZHUBANOV, B.A.; DEREVYANCHENKO, V.P.; RAFIKOV, S.R.

Synthesis of polymers. Report No.16: M-xylylenediamine polycondensation with phthalic acid. Trudy Inst. khim. nauk AN Kazakh. SSR 11: 42-47 '64. (MIRA 17:11)

ZHUBANOV, B.A.; SADCHIKOV, I.Ya.

Apparatus for the differential thermal analysis of polymers. Trudy  
Inst. khim. nauk AN Kazakh. SSR 11:161-163 '64. (MIRA 17:11)

SUVOROV, B.V.; RAFIKOV, S.R.; ZHUBANOV, B.A.; KOSTROMIN, A.S.; KUDINOVA, V.S.;  
KAGARLITSKIY, A.D.; KHMURA, M.I.

Catalytic synthesis of the dinitrile of terephthalic acid.  
Zhur. prikl. khim. 36 no.8:1837-1847 Ag '63. (MIRA 16:11)

ZHUBANOV, B.A.; RAFIKOV, S.R.; MOSHKEVICH, S.A.

Synthesis of polymers. Part II: Mixed polyamides based on m-xylylene-diamine, adipic, aminoanthanic, and aminoundecanoic acids. Vysokom. soed. 5 no.9:1325-1328 S '63. (MIRA 17:1)

1. Institut khimicheskikh nauk AN KazSSR.

DEREVYANCHENKO, V.P.; ZHUBANOV, B.A.

Determination of ammonia in the presence of m-xylenediamine.  
Zav.lab. 29 no.4:419 '63. (MIRA 16:5)

1. Institut khimicheskikh nauk AN Kazakhskoy SSR.  
(Ammonia) (Xylenediamine)

RAFIKOV, S.R.; ZHUBANOV, B.A.; GUMARGALIYEVA, K.Z.; PAVLITENKO, L.V.

Polymer synthesis. Part 4: Synthesis of mixed polyamides based  
on xylylenediamine, hexamethylenediamine, and adipic acid. Vysokom.  
soed. 4 no.3:414-418 Mr '62. (MIRA 15:3)

1. Institut khimicheskikh nauk AN KazSSR.  
(Polyamides)

31991  
S/190/62/004/003/014/023  
B110/B144

15.8080

AUTHORS: Rafikov, S. R., Zhubanov, B. A., Gumargaliyeva, K. Z.,  
Pavlitenko, L. V.

TITLE: Studies in the field of polymer synthesis IV. Synthesis of  
mixed polyamides on the basis of xylylene diamines,  
hexamethylene diamines and adipic acid

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 3, 1962, 414-418

TEXT: The authors studied mixed polyamides which arise when a mixture of p- and m-xylylene diamines (I) and/or hexamethylene diamines (II) is made to react with adipic acid (III). The thermal resistivity of mixed polyamides is assumed to be increased by the introduction of aromatic rings into the aliphatic polyamide chain of II and III of corresponding structure. The lawfulness in the change of the properties of mixed p- and m-I polyamides should therefore be studied. They were obtained by polycondensation of corresponding diamine salts mixed with III. The molar ratios of diamines were: 95:5, 80:20, 65:35, 50:50, 35:65, 20:80, and 5:95. The melting points of salts obtained from aqueous-alcoholic

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S/190/62/004/003/014/023  
B110/B144

Studies in the field of...

solutions were p-I + III = 233°C, m-I + III = 187°C, II + III = 195°C. Polycondensation was conducted in an N<sub>2</sub> stream at a temperature below 270°C but higher than the melting point. The thermomechanical curves were found with an apparatus by B. L. Tsetlin et al (Zavodsk. labor., 22, 352, 1956), the melting points were determined according to P. J. Flory, and the intrinsic viscosities in cresol or highly concentrated H<sub>2</sub>SO<sub>4</sub> were also determined. All mixed I and III polyamides are hard, stable, hornlike, and insoluble in the usual solvents. Their melts yield semitransparent fibers which can be cold drawn by 300-400 %. Melting points and flow temperatures of m-I + III, p-I + III, and p-I + II + III polyamides increase continuously with the amount of I residue. This suggests isomorphous substitution of I residues in the crystalline region. The distinct minimum of the softening point - composition curve for m-I + III : p-I + III = 40 : 60 and II + III : p-I + III ≈ 30 : 70 is probably due to a larger amount of amorphous polymer and copolymer. Different dependences on the composition of mixed m-I, II, and III polyamides are probably due to: (1) great difference in the linear dimensions of diamines and (2) disturbance of axial symmetry of the macromolecule by

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S/190/62/004/003/014/023  
B110/B144

the m-I nucleus. The intrinsic viscosity (0.5-1.3 dl/g) determined in cresol and concentrated  $H_2SO_4$  showed normal concentration dependence. A polyamide (molecular weight 11,800) which arose from m-I, II, and III, (diamine ratio 1:1) dissolved in ethylene chlorohydrin, another one which arose from p-I, m-I, and III (diamine ratio 1:4) dissolved in a mixture of 60 % ethylene chlorohydrine and 40 %  $CH_2ClCOOH$ . There are 4 figures, 1 table, and 7 references: 4 Soviet and 3 non-Soviet. The most important reference to the English-language publication reads as follows:  
R. D. Evans, H. R. Mighton, P. J. Flory, J. Amer. Chem. Soc., 72, 2018,  
1950.

ASSOCIATION: Institut khimicheskikh nauk AN KazSSR (Institute of Chemical Sciences AS Kazakhskaya SSR)

SUBMITTED: March 2, 1961

Card 3/3

15.8167

2209

22562  
S/190/61/003/005/005/014  
B101/B218

AUTHORS: Rafikov, S. R., Zhubanov, B. A., Khasanova, R. N.,  
Gumargaliyeva, K. Z., Sagintayeva, K. D.

TITLE: Studies in the field of polymer synthesis. I. Synthesis of  
polyamides on the basis of xylylene diamines

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 5, 1961, 699-705

TEXT: Proceeding from the fact that heat-resistant polyamides suitable for fiber and glass production are formed by symmetric, aliphatic-aromatic diamines, a study has been made of the reactions of m-xylylene diamine (A) and n-xylylene diamine (B) with adipic acid (1), azelaic acid (2), sebacic acid (3), o-phthalic acid (4), isophthalic acid (5), and terephthalic acid (6). The synthesis of esters of A with 1, 2, 4, and 5, and of B with 1 and 3 was performed by mixing diamine solutions and acid in 95% alcohol. B was synthesized with 2, 4, and 5 at the boiling temperature of the alcoholic solution. The resulting ester was filtered off. The precipitate was formed not before 24 hr. Since terephthalic acid is hardly soluble in organic solvents, synthesis A + 6 was effected by addition of the acid to the

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S/190/61/003/005/005/014  
B101/B218

Studies in ...

aqueous diamine solution and by subsequent boiling. Alcohol + benzene (1 : 1) were used as solvent for the synthesis of A + 3 because the ester did not precipitate from 95% alcohol. Table 1 contains the yields and melting points of the esters synthesized. Polymerization occurred either in the melt or in a cresol solution. The ester B + 6 could not be polymerized this way on account of its insolubility in cresol and its high melting point. In this case, the polyamide was obtained from an equimolar mixture of dimethyl terephthalate and p-xylylene diamide. Tables 2 and 3 list data and properties of the polymers. Polycondensation of xylylene diamines with o-phthalic acid failed. 50% of a substance melting at 237-237.5°C was isolated. It was identified as diphthalyl xylylene diamine. The authors assume a rupture of the reaction chain by formation of a cyclic imide, owing to the neighboring position of the carboxyl groups. The intrinsic viscosity of polyamides indicates that their molecular weight varies between 10,000 and 20,000. The authors thank D. V. Sokol'skiy and B. V. Suvorov for the diamine put at their disposal. B. A. Poray-Koshits is mentioned. There are 2 figures, 3 tables, and 13 references: 6 Soviet-bloc and 7 non-Soviet-bloc. The 3 most important references to English-language publications read as follows: O. B. Edgar, E. Ellery, J. Chem. Soc., 1952, 2633;

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Studies in ...

S/190/61/003/005/005/014  
B101/B218

O. B. Edgar, R. Hill, J. Polymer Sci.; 8, 1, 1952; E. F. Carlton, F. G. Lum,  
Industr. and Engng. Chem. 49, 1239, 1957.

ASSOCIATION: Institut khimicheskikh nauk AN KazSSR (Institute of Chemical Sciences, AS Kazakhskaya SSR)

SUBMITTED: July 19, 1960

(1) Диамин	(2) Кислота	(3) Выход соли, %	(4) Т. пл., °C
(A) m-Капиллонидамины			
(1) То же	Адипиновая	93,0	186—187
" "	Азелатиновая	86,3	156—158
" "	Себациновая	—	04—57
" "	o-Фталевая (4)	95,0	205—206
" "	Изофталевая	76,3	210—220
" "	Терефталевая	40,0	270
(B) p-Капиллонидамины			
(1) То же	Адипиновая	92,3	232—233
" "	Азелатиновая	93,0	200
" "	Себациновая (1)	95,0	228
" "	o-Фталевая (4)	95,0	205—206
" "	Изофталевая	98,0	202—264
" "	Терефталевая	87,0	340

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ZHUBANOV, K.A.; SOKOL'SKIY, D.V.

Trans-isomerization in the continuous hydrogenation of fats.  
Trudy Inst. khim. nauk AN Kazakh. SSR 13:207-209 '65.  
(MIRA 18:9)

CHULANOV, G.Ch., doktor ekon. na.k, prof.; KISELEVA, L.I.; ZHUBANOVA, Z.G.; TAYBEKOV, I.Ye.; DZHAKSALIYEV, B.M.; ISHMUKHAMEDOV, B.M.; CHECHELEVA, T.V.; KUZNETSOV, Yu.N., red.; POGOZHEV, A.S., red.; ROROKINA, Z.P., tekhn. red.

[Essays on the history of the national economy of the Kazakh S.S.R.] Ocherki istorii narodnogo khoziaistva Kazakhskoi SSR. Alma-Ata, Izd-vo AN Kaz.SSR. Vol.3. [June 1941 to 1945] Iiun' 1941 goda - 1945 god. 1963. 299 p. (MIRA 17:1)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut ekonomiki.
2. Chlen-korrespondent AN Kaz.SSR (for Chulanov).

CHULANOV, Gabdulla Chulanovich; ISIMUKHAMEDOV, Bukenbay Mergaliyevich;  
CHECHELEVA, Tat'yana Vasil'yevna; ZHUBANOVA, Zarya Galimovna;  
KOLTOCHNIK, N.I., red.; ROROKINA, Z.P., tekhn. red.

[Studies on the history of the national economy of the Kazakh  
S.S.R.] Ocherki istorii narodnogo khoziaistva Kazakhskoi SSR.  
[By] G.Ch.Chulanov i dr. Alma-Ata, Izd-vo Akad. nauk Kazakh-  
skoi SSR. Vol.2.[From 1928 to June 1941] 1928 god - iyun'  
1941 goda. 1962. 374 p. (MIRA 15:8)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut ekonomiki.  
(Kazakhstan--Economic conditions)

ZHUBAYEV, N.

Propagation of plane traveling shock waves of loading and  
loading-unloading in models simulating deformations of soils.  
Vest. AN Kazakh. SSR 19 no.9:78-84 S '63. (MIRA 16:11)

ACCESSION NR: APL4028472

S/0031/64/000/003/0047/0056

AUTHOR: Zhubayev, N.

TITLE: Investigation on the propagation of shock waves in the ground

SOURCE: AN KazSSR. Vestnik, No. 3, 1964, 47-56

TOPIC TAGS: shock wave, shock wave propagation, ground, shear wave, compressional shear wave, approximation method

ABSTRACT: It has been shown that shock waves of compression and compression-shear remain shock waves to the end and that their velocity decreases with time. General equations for the zone of longitudinal-transverse movements are complex in form and cannot be integrated by analytical methods. The author employs some approximation methods to integrate these equations for the case when shear deformation is small compared with longitudinal deformation. He considers the movements to occur in the lower half space and uses the standard coordinates. If a steady load is maintained on the upper surface (interface), and the state of the medium is expressed by  $\sigma = \sigma(\xi)$  and  $\sigma_1 = \sigma_1(\xi_1)$ , he finds that if the curves of these functions are concave toward the  $O\xi$  and  $O\xi_1$  axes, when displacement is

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ACCESSION NR: AP4028472

slight, the compressional-shear wave will be a shock wave relative to shear deformation, and the parameters of longitudinal movement ( $u_t$ ,  $u_x$ ,  $X_x$ ) will be continuous ( $u$  represents particle velocity and  $X$  indicates stress); and if the curve of  $\sigma = \sigma(\varepsilon)$  is convex toward the  $O\varepsilon$  axis while the curve of  $\sigma_1 = \sigma_1(\varepsilon_1)$  is convex toward the  $O\sigma_1$  axis, then the compressional-shear wave will be a continuous Riemann wave, for which the parameters of both compression and shear may change. When the load on the surface decreases steadily, the nature of the velocity change at the surface corresponds to the nature of change in all parameters of movement at the front of the shock wave. The stress  $X_x$  at any point for a compressional wave is a linear function of  $x$  and it increases with increase in  $x$ . The velocity of the particle  $u_t$  is constant at any fixed moment of time. If the compressional wave becomes a continuous Riemann wave, it becomes impossible to measure precisely the velocity of the shear wave. It becomes necessary to measure the velocities of the particles  $u_t$  and  $v_t$  in the continuous wave and the velocity of the compressional wave, which is travelling with a sharp front. Orig. art. has: 6 figures and 42 formulas.

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"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6

ACCESSION NR: AP4028472

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 17Apr64

ENCL: 00

SUB CODE: AS

NO REF SOV: 005

OTHER: 000

Card 3/3

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6"

NOGA, N.A.; ZHUEV, L.N.

Inserts for forging dies. Mashinostroenie no.1:105-106 Ja-F  
'62.

(MIRA 15:2)

(Dies (Metalworking))

NOGA, N.A.; ZHUBR, L.N.

Effect of the surface finish of roller dies on their wear  
resistance. Kuz.-shtam. proizv. 4 no.7:8-10 Ji '62. (MIRA 15:7)  
(Dies (Metalworking))

ZHUBR, L. N., NOGA, N.A.

Preheating of roller dies. Kuz.-shtam. proizv. 2 no.7:43 J1 '60.  
(MIRA 13:8)  
(Forging machinery) (Dies (Metalworking))

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6

NOGA, N.A., inzh.; ZHUBR, L.N., inzh.

Making and multiple reconditioning of upsetting dies. Machine-  
streenie no. 5847-48 S-0 '64 (MIRA 1882)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6"

ZHUBR, L.N., inzh.

Automatic heat treatment of links of scraper conveyer chains.  
Mashinostroenie no.2:64-66 Mr-Ap '62. (MIRA 15:4)

1. Khar'kovskiy zavod "Svet shakhtera".  
(Steel--Heat treatment) (Automation)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6

ZHUBR, L.N.; NOGA, N.A.

Design of guides with protective device against overloading.  
Kuz.-shtam. proizv. 3 no.9:47 S '61. (MIRA 14:9)  
(Forging machinery)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6"

RYLOVA, A.; ZHUBR, Ye., pовар, участник коммунистического труда

Railroad workers to get excellent service! Obshchestv.pit. no.2:20-21  
F '63. (MIRA 16:4)

1. Zaveduyushchaya proizvodstvom filiala stolovoy No.11, Leningrad-Moskovskaya tovarnaya stantsiya Oktyabr'skoy zhelezny dorogi (for Rylova). 2. Stolovaya No.4 otdela rabochego snabzheniya Leningrad-Vitebskogo otdeleniya Oktyabr'skoy zheleznoy dorogi (for Zhubr).  
(Restaurants, lunchrooms, etc.)

ZHUBRAVSKAYA

POLAND/Chemical Technology. Cellulose and its Derivatives.

H

Abs Jour: Ref. Zhur-Khimiya, No 12, 1958, 41863.

Author : Zhubravskaya.

Inst : Not Given.

Title : Processing and Application of Tall Oil.

Orig Pub: Przegl. Papiern., 1957, 13, No 1, 24-28.

Abstract: The necessity for utilization of tall oil in sulfite pulping to increase its process savings is pointed out. The composition of the tall oil (fatty acids content, resins and unsaponifiable matter) is changed, depending on the climate, geographical conditions and other factors. The problems of the processing technology were examined as well as the equipment and the control measuring devices adapted in various countries.

Card : 1/1

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USSR/Pharmacology. Toxicology. Vitamins.

V

Abs Jour: Ref. Zhur. - Biol., No 22, 1958, 102876

Author : Zhubrid, M. M.

Inst : Lvov Scientific Research Institute of Maternal  
and Child Welfare

Title : Therapeutic Application of Nicotinic Acid in  
Toxicoses of Dysenteric Etiology.

Orig Pub: Nauchn. tr. L'vovsk. n.-i. in-t okhrany mater-  
instva i detstva, 1957, 2, 103-107

Abstract: Dysenteric intoxication was induced in rats by  
intraperitoneal introduction of dysenteric  
toxin. The application of nicotinic acid (I)  
decreased the appearances of intoxication as  
compared with the control group. On this basis,  
I in a dose of 10-15 mg daily for the course of

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"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6

ZHUBRZHITKII, B.I., podpolkovnik

Characteristics of using course instruments in flying from an  
arbitrary meridian. Mor. sbor. 47 no.5866-67 My '64.

(MIRA 18:6)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6"

S/128/63/003/001/008/008  
A004/A127

AUTHORS: Milyayev, M.M., Zhuchayev, Yu.A.  
tactical pouring of castings of

AUTHORS: Miliyayev, M.M., Zhuchayev  
TITLE: Vertical pouring of castings of body-of-revolution  
PERIODICAL: Liteynoye proizvodstvo, no. 1, 1963, 37 - 38

AUTHORS: M. I. ...  
TITLE: Vertical pouring of castings.  
PERIODICAL: Liteynoye proizvodstvo, no. 1, 1963, 37 - 38  
TEXT: In contrast to the usual practice of pouring castings of the body-of-revolution type in the horizontal position, which resulted in an output of serviceable products not higher than 45 - 60%, the Kyshtymski mehanicheskiy zavod (Kyshtymsk Mechanical Plant) successfully employed the vertical pouring of such steel castings. The riser size was calculated according to the formulae:  $B = \pi D : 8$  (mm);  $B = \pi D : 10$  (mm), where  $B$  - length of riser relative to the casting O.D.,  $D$  - outer diameter. The first formula is suitable for castings 200 - 600 mm in diameter, the second for castings 600 - 1,200 mm in diameter. The riser width is calculated as follows:  $T = 1 + g$ , where  $l$  - rim thickness of casting,  $g$  - width of shoulder defining the line of intersection. Riser height  $H$  is determined depending on the casting outer diameter  $D$  and rim thickness. The authors give a brief description of the pouring procedure and point out that

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MILYAYEV, M.M.; ZHUCHAYEV, Yu.A.

Vertical pouring of castings in the form of bodies of revolution. Lit. prizv. no.1:37-38 Ja '63. (MIRA 16:3)  
(Founding)  
(Body of revolution)

ACC NR: AT7001904

(N)

SOURCE CODE: UR/3000/66/000/013/0104/0114

AUTHOR: Sogrinin, Yu. P. (Candidate of technical sciences); Gaponov, M. A.  
(Engineer); Zhuchenko, A. N. (Engineer)

ORG: none

TITLE: The problem of selecting tool steels for high-speed pressure working of  
metalsSOURCE: Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut kuznechno-  
pressovogo mashinostroyeniya. [Nauchnyye trudy] no. 13, 1966. Shtampovyye stali  
(Tool steels), 104-114TOPIC TAGS: metal forming, high energy rate forming, hot die forming, alloy steel,  
hot die steel/5KhNM steel 3Kh2V8F steel, 4Kh5V2FS steelABSTRACT: 5KhNM, 3Kh2V8F and 4Kh5V2FS hot die steels were tested for their suit-  
ability as die materials in hot high energy rate forming of parts from  
AK6 aluminum alloy St.45 carbon steel, VT1 titanium and nickel-base  
EI437B [U.S. Nimonic 80A] alloy. The test results showed that 4Kh5V2FS  
steel was the most suitable for intricate dies for high-speed forming of  
complex parts with thin, high fins (85% reduction). The 4Kh5V2FS steel  
contains 0.35—0.45% C, 0.8—1.2% Si, 0.35% Mn, 4.5—5.5% Cr, 1.6—2.4% W,  
0.8—1.2% V, the remainder—Fe. Quenched from 1050°C and tempered at

UDC: none

Card 1/2

ACC NR: AT7001904

580C, 4Kh5V2FS steel has a tensile strength of 1830 Mn/m<sup>2</sup>, a yield strength of 1629 Mn/m<sup>2</sup>, an elongation of 9.5%, a reduction of area of 42.5%, an impact toughness of 340 kJ/m<sup>2</sup> and an HRC hardness of 49. The 4Kh5V2FS steel dies had a high thermal shock resistance, a satisfactory wear resistance and service life. 5KhNM steel worked satisfactorily only in forming of aluminum-alloy parts, but failed in forming titanium and steel parts. The main shortcomings of this steel were a low tensile strength (1300 Mn/m<sup>2</sup>) and a low thermal shock resistance. 3Kh2V2F steel was also unsuitable for steel parts of an intricate form because of a low ductility and impact toughness and a poor thermal shock resistance.

Orig. art. has: 5 figures and 4 tables.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 005/ ATD PRESS: 5112  
///

Card 2/2

L 9458-66

ACC NR: AP5025068

SOURCE CODE: UR/0265/65/000/016/0122/0122

AUTHORS: Zhuchenko, A. N.; Zimin, A. I.; Grayfer, A. Eh.

ORG: none

J3  
B

TITLE: High speed pneumatic hammer. Class 49, No. 174056

SOURCE: Byulleten' izobreteniy i tovarkh zhakov, no. 16, 1965, 122

TOPIC TAGS: forging hammer, pneumatic hammer, forging press, metalworking, PNEUMATIC DEVICE, FORGING MACHINERY

ABSTRACT: This Author Certificate presents a high speed pneumatic hammer which operates at high pressures with a cylinder open at the bottom and with the hammer acting as the piston (see Fig. 1). To provide reliable holding of the hammer at the cylinder top and to provide fast automatic release when high pressure air is introduced, the upper part of the piston-hammer and the lid of the cylinder form mating circular surfaces, the lid part of which deforms elastically in the radial direction when pressurized air is introduced. To simplify hammer construction and to eliminate loss of compressed air during the return stroke, a second feature is provided by the use of a vacuum pump which reduces the pressure above the piston during the return stroke.

Card 1/2

UDC: 621.733.544-185.4

L 9458-66  
ACC NR: AP5025068

0

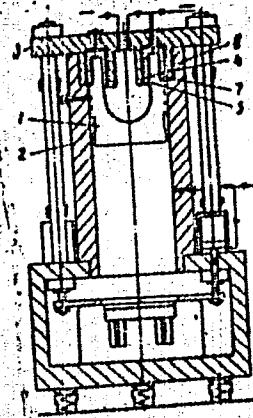


Fig. 1. 1 - Piston-hammer; 2 - cylinder;  
3 - lid; 4 to 7 - circular mating surfaces.

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 04Jul62

Card 2/2 (1)

USSR / Human and Animal Morphology (Normal and Pathological).  
Nervous System. Central Nervous System.

S

Abs Jour : Ref Zhur - Biologiya, No 9, 1958, No. 40777

Author : Zhuchenko, D. G.

Inst : Not given

Title : Histogenesis and Dynamics of Formation of the Wall of  
Abcesses of the Brain Under Experimental Conditions

Orig Pub : Vopr. neirokhirurgii, 1956, No 6, 20-30

Abstract : The dynamics of development of the wall of an abcess from  
the time of its inception until the fourteenth day of  
organization were studied. In 18 out of 25 dogs sensitized  
with a specific antigen, cerebral abcesses appeared follow-  
ing injection of a staphylococcus, and in 2, focal encephali-  
tis developed. An abcess resulted in six out of twenty-  
five non-sensitized dogs, focal encephalitis developed in 9.  
A four-layer wall of the abcess formed within 14 days

Card 1/2

26

ZHUCHENKO, D. G. (Moskva)

Intracranial hematomas with a subacute course. Klin. med. no.9:  
27-34 '61. (MIRA 15:6)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo  
Znameni instituta neyrokhirurgii imeni akad. N. N. Burdenko  
AMN SSSR.

(BRAIN-TUMORS) (HEMATOMA)

L 39885-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JN/JD/RW/OD-2

ACC NR: AP6016576

(N)

SOURCE CODE: UR/0182/66/000/005/0008/0012

AUTHOR: Sogrinshin, Yu. P.; Zhuchenko, A. N.; Moroz, V. Ya.30  
25  
B

ORG: none

TITLE: Inertial forces in extrusion with high-velocity metal flow

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 5, 1966, 8-12

TOPIC TAGS: metal, metal forging, metal extrusion, impact extrusion, high energy rate forming, metal forming

ABSTRACT: High-energy-rate forming (HERF) makes it possible to extrude complex shaped parts such as turbine blades from low-plasticity alloys which, under conditions of conventional extrusion (in presses) at metal flow velocities of 0.1—1.5 m/sec, are highly susceptible to cracking.<sup>4</sup> The initial velocity of metal flow in HERF could be as high as 300 m/sec. At such velocities, the momentum of the extruded portion may reach a magnitude sufficient to tear away this portion from the rest of the material, or at least to cause necking. Mathematical analysis established that the permissible flow velocity depends on the metal strength, extrusion temperature and extrusion ratio, and at an extrusion ratio of 10:1 varies from 209 m/sec for aluminum alloys to 215 m/sec for carbon steels. Experiments with HERF extrusion of AK6, V95, AMg3, AMg6 aluminum alloys, VT3-1 titanium alloy, 45 carbon steel and

Card 1/2

UDC: 621.777.2

L 39885-66

ACC NR: AP6016576

5

1Kh13, Kh18N9T, EI696, and EI827 stainless steels yielded results which agreed very well with those of mathematical calculations. Orig. art. has: 3 figures, 2 tables, and 13 formulas.

[DV]

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 5008

Card 2/2 h/s

ZHUCHENKO, D. G.

"Characteristics of the Conductivity of Nerve Fibers in Cases with Trophic Ulcers,"

Vop. Neyrokhirurgii, 13, No. 2, 1949.

Mbr., Dept. Peripheral & Vegetative Nervous System, Inst. Neurosurgery im. N. N.

Burdenko, Dept. Clinical Med., Acad. Med. Sci., -c1949-.

ZHUCHENKO, D. G.

36928. Anliz nekotorykh prichin, narushayushchikh funktsiyu konechnosti v rezidual'nom periode posle oneistrel'nykh porazheniy perifericheskikh nervov. V. sb: Nevrologiya voyen. Vremeni. T. II. M., 1949, c. 172-80.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

SLAVUTSKIY, Ya.L.; ZHUCHENKO, D.G.

Bioelectric characteristics of the muscles in man in neural regeneration following anastomosis. Vopr. neirokhir 16 no. 2:42-48  
Mar-Apr 1952.  
(CLML 22:4)

1. Of the Laboratory of Physiology (Head -- Prof. V. S. Rusinov, Corresponding Member AMS USSR) and of the Fifth Clinical Division (Head -- Doctor Medical Sciences K. G. Terian), Institute of Neurosurgery imeni Academician N. N. Burdenko (Director -- Prof. B. G. Yagorov, Corresponding Member AMS USSR), Academy of Medical Sciences USSR.

ZHUCHENKO, D. G.

Brain - Abscess

Dynamics of clinical symptoms in metastatic brain abscesses. Vop. neirokhir 16, No. 4, 1952

Monthly List of Russian Accessions, Library of Congress November 1952 UNCLASSIFIED.

ZHUCHENKO, D.G.

ZHUCHENKO, D.G.

Pathomorphology and clinical aspects of multiple metastatic  
abscess of the brain. Vop.neirokhir.19 no.4:35-43 J1-Ag '55.  
(MLRA 8:10)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo  
Znameni instituta neirokhirurgii imeni akad. N.N. Burdenko  
Akademii meditsinskikh nauk SSSR.

(BRAIN, abscess,  
multiple metastatic)

(ABSCESS,  
brain, multiple metastatic)

ZHUCHENKO, D. G.

ZHUCHENKO, D. G. -- "Metastatic Abscesses of the Brain (Pathogenesis, Pathological Anatomy, Clinical Aspect and Treatment)." Acad Med Sci USSR, Moscow, 1956. (Dissertation for the Degree of Doctor of Medical Sciences)

SO: Knizhnaya Letopis' No 44, October 1956

ZHUCHENKO, D.G.

Histogenesis and dynamics of formation of septa of brain abscesses  
experimental conditions. Vop.neirokhir. 20 no.6:20-30 N-D '56.

(MLRA 10:2)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni  
instituta neirokhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(BRAIN, abscess,

exper., histogenesis & dynamics of form. of abscess wall  
(Rus))

ZHUCHENKO, B.G., doktor med. nauk; NAUMENKO, V.I.

Clinical aspects of craniocerebral traumas with preponderant lesions in the chiasmal-diencephalic region. Trudy Inst. im. N.V. Sklif. 8:69-76 '63. (MIRA 18:6)

I. Institut neyrokhirurgii imeni akademika Burdenko AMN SSSR, Moskva.

ZHUCHENKO, D.G., doktor med.nauk

Clinical aspects and diagnosis of early complications following  
brain surgery performed under symptoms of intracranial hypertension.  
Probl.sovr.neirokhir. 4:53-61 '62. (MIRA 16:2)  
(BRAIN—SURGERY) (HYPERTENSION)

ZHUCHENKO, D.G., doktor med.nauk

Clinical use of electroencephalography in for advanced brain  
tumors. Probl.sovr.neirokhir. 48117-130 '62. (MIRA 16:2)  
(BRAIN—TUMORS) (ELECTROENCEPHALOGRAPHY)

ZHUCHENKO, D.G., doktor med.nauk

Problems in the pathogenesis and clinical aspects of cystic astrocytomas of the cerebellum. Probl.sovr.neirokhir. 4:156-168 '62.

(MIRA 16:2)

(CEREBELLUM—TUMORS) (CYSTS)

ZHUCHENKO, Daniil Grigor'yevich; VASIN, N.Ya., red.; PRONINA, N.D.,  
tekhn. red.

[Metastatic abscesses of the brain] Metastaticheskie abscessy  
golovnogo mozga. Moskva, Medgiz, 1963. 213 p. (MIRA 16:6)  
(BRAIN—ABSCESS)

ZHUCHENKO, D.G.

Some clinical problems in chronic and subacute intracranial  
hematomas. Vop.neirokhir. 24 no.4:15-19 Je-Ag '60. (MIRA 13:12)  
(BRAIN HEMORRHAGE)

ZHUCHENKO, I.

Practice in operating a consolidated automotive transportation unit. Av.transp. 40 no.7:38-39 Jl '62. (MIRA 15:8)

I. Nachal'nik proizvodstvenno-planovogo otdela avtokolonne No.2199  
Kirovogradskogo oblastnogo avtotransportnogo tresta.  
(Transportation, Automotive)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6

ZHUCHENKO, I.

Accomplishments of the radio amateurs of Leningrad. Radio no.10:4  
0 '64. (MIRA 18:2)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6"

ZHUCHENKO, I. (UALSS) (g.Leningrad)

An interesting expedition. Radio no.4:20 Ap '62. (MIRA 15:4)  
(Amateur radio stations) (Radio operators)

ZHUCHENKO, I.

Art of conversation. Prof.-tekhn. obr. 22 no.9:41 8 '65. (MIRA 18:9)

1. Pomoshchnik direktora professional'no-tekhnicheskogo uchilishcha  
No.55, Leningrad.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6

ZHUCHENKO, K., inzhener-polkovnik

Weather reconnaissance. Av. i kosm. 47 no.7:33-35 J1 '65.  
(MIRA 18:6)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6"

BOGDANOVA, G.S.; LITVINOV, P.I.; Prinimala uchastiye: ZHUCHENKO, K.V.

Structure - properties relationship in pyrograms of the  
system  $\text{SiO}_2$  -  $\text{Al}_2\text{O}_3$  -  $\text{MgO}$ . Izv. AN SSSR. Neorg. mat. 1 .  
no.11:2005-2008 N°'65. (MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut stekla.  
Submitted April 17, 1965.

SHASKOL'SKIY, B.V., kand. tekhn. nauk; SOTNIKOVA, K.F., inzh.;  
GAVRILIN, Ye.F.; LUBKOV, A.N.; SAPOZHNIKOV, V.M.; ZHUCHENKO,  
L.F.; CHIGIRINA, N.I., tekhnik; ZHARIKOV, I.P., inzh.;  
CHERTISHCHEVA, A.Ye.; SHAPOVALOV, V.K., tekhnik; MOROZOV, A.M.,  
inzh.; SLIVKO, S.V., tekhnik; CHERNAVSKIY, G.N., kand. tekhn.  
nauk; STREZHESTRAKH, Ye.I., inzh., ed.; EL'KIND, V.D., tekhn.  
red.; DEMKINA, N.F., tekhn. red.

[General norms for time and machining conditions used in the  
industry for machining on automatic lathes; mass, large-lot  
and lot production] Obshcheshinostroitel'nye normativy vreme-  
ni i rezhimov rezaniia na tokarno-avtomatnye raboty; massovoe,  
krupnoseriinoe i seriinoe proizvodstvo. Moskva, Mashgiz, 1962.  
271 p. (MIRA 15:12)

1. Moscow. TSentral'noye byuro promyshlennyykh normativov po trudu.  
(Turning--Production standards)

ZHUCHENKO, M.M., kand.tekhn.nauk; IVANOV, V.M., inzh.

Diagram for the design of controllable pitch propellers placed  
in tandem. Sudostroenie 26 no. 11:14-15 N '60. (MIRA 14:1)  
(Propellers)

ZHUCHENKO, Mikhail Melet'yevich; IVANOV, Vasiliy Mikhaylovich; POLYAKHOV, N.N.; professor, otdeleniye redaktor; OSVINSKAYA, A.A., redaktor KAMOLOVA, V.M., tekhnicheskiy redaktor

[Marine engines] Sudovye dvizhiteli. Pca obshchei red. N.N.Poliakova. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1956. 343 p.  
(Marine engines) (MIRA 10:1)

ZHUCHENKO, Mikhail Milet'yevich

N/5  
672.42  
.26

SUDOVYE DVIZHITELI (SHIP PROPELLERS, BY) M. M. ZHUCHENKO (1) V. M. IVANOV.  
POD OBUHCHEY RED. N. N. POLYAKHOVA. LENINGRAD, SUDPROCHGIZ, 1956. 343 p. ILLUS.,  
DIAGRS., TABLES. BIBLIOGRAPHY: p. (341)

DOROGOSTAYSKIY, Dmitriy Vital'yevich, prof., doktor tekhn. nauk;  
ZHUCHENKO, Mikhail Melet'yevich; MAL'TSEV, Nikolay  
Yakovlevich. Primenitel'nostiye GRIGOR'YEV, Ya.N., inzh.;  
FISHER, A.S., inzh., retsenzent; FRID, Ye.G., inzh.,  
retsenzent; OSVENSKAYA, A.A., red.

[Theory and equipment of ships] Teoriia i ustroistvo sudna.  
Leningrad, Sudostroenie, 1964. 508 p. (MIRA 17:8)

VOYTKUNSKIY, Yaroslav Iosifovich; PERSHITS, Robert Yakovlevich; TITOV,  
Igor' Anatol'yevich. Prinimali uchastiye: YEGOROV, I.T.;  
RUSETSKIY, A.A.; IVANOV, V.M.; ZHUCHENKO, M.M. KRIVTSOV, Yu.V.,  
otv.red.; FIRSOV, G.A., otv.red.; OSVENSAYA, A.A., red.;  
KONTOROVICH, A.I., tekhn.red.

[Handbook on the theory of ship construction; propulsive speed  
and maneuverability] Spravochnik po teorii korablia; khodkost'  
'i upravliaemost'. Leningrad, Gos.soiuznoe izd-vo sudostroit.  
promyshl., 1960. 688 p. (MIRA 13:10)  
(Naval architecture--Handbooks, manuals, etc.)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6

ZHUCHENKO, N. M.

Raschety gребных винтов [Screw-propeller calculations]. Moscow, Mashgiz, 1953. 276 p.

SO: Monthly List of Russian Acquisitions, Vol 7, No 3, June 1954.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R002064910012-6"

ZHUCHENKO, M.M.

Systematic testing of the screw propeller-nozzle system. Trudy  
LKI no.28:21-26 '59. (MIRA 15:5)

1. Kafedra teorii korablya Leningradskogo korablestroitel'nogo  
instituta.

(Propellers--Testing)

ZHUCHENKO, O.N.

More attention to mechanization of work in drugstores. Farmatsev,  
zhur. 16 no. 2:76-77 '61. (MIRA 14:4)

1. Zaviduyuchiy viddilom aptechnoi merezhi aptekoupravlinnya  
Vinnits'kogo oblastorovviddilu.

(DRUGSTORES)

ACC NR: AR6026521

SOURCE CODE: UR/0372/66/000/004/V035/V035

AUTHOR: Bulayeva, I. V.; Zhuchenko, S. A.

TITLE: On the programming of the design algorithms of manufacturing processes

SOURCE: Ref. zh. Kibernetika, Abs. 4V218

REF SOURCE: Sb. Vopr. vychisl. matem. i vychisl. tekhn. Rostov-na-Don , Rostovsk. un-t, 1965, 104-110

TOPIC TAGS: industrial program, computer program, operations research, algorithm

ABSTRACT: A system of Ural-1 digital-computer programs designed to convert blueprint specifications of shaft and axle types to finished manufacturing flowcharts is described. The manufacturing process is divided into transitions, with a subroutine being compiled for each transition (altogether there are 24 such subroutines in the system). A block diagram of a subroutine and a method of coding source information are described. Yu. Bayakovskiy.  
[Translation of abstract]

SUB CODE: 09, 12

Card 1/1

TMG 510 5-401 1A9

ZHUCHENKO, V., inzh.

Screw anchor-pile. Mor. flot 18 no.8:20-21 Ag '58. (MIRA 11:9)

1. Kaspreydmorput'.

(Piling (Civil engineering)) (Anchors)

ZHUCHENKO, P.G., kand. med. nauk

Antigen properties of the blood serum and placental extracts  
in late pregnancy toxemias; experimental research. Akush. i  
gin. 40 no.1:64-69 Ja-F '64. (MIRA 17:8)

1. Kafedra akusherstva i ginekologii (zav. - dotsent S.K.  
Barutchev), i kafedra mikrobiologii (zav. - prof. T.A. Lobova)  
Vinitskogo meditsinskogo instituta.

ZHUCHENKO, P. G., Cand Med Sci -- (diss) "Certain problems  
of pathogenesis and treatment of early toxicoses of pregnancy  
(Clinico-laboratory and experimental studies)." Mos, 1957.  
11 pp (Min of Health USSR, Central Inst for the Advanced  
Training of Physicians), 200 copies (KL, 52-57, 111)

- 114 -

DANILKIN, N.P.; ZHUCHENKO, S.A.

Use of an electronic computer in calculating the ionospheric  
Nz-profiles taking both components of the magnetooionic splitting  
signal into account. Geomag. i aer. 4 no.2:307-312 Mr-Ap  
'64. (MIRA 17:4)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

ZHUCHENKO, V., inzh.

Greater use of new techniques for dredging operations. Rech.  
transp. 19 no.9:36-37 S '60. (MIRA 13:9)  
(Dredging machinery)

ZHUCHENKO, V., inzh.

Use of aluminum in refrigerating compressors. Khol.tekh. 37 no.4:  
52 Jl-Ag '60. (MIRA 13:11)  
(Compressors) (Aluminum)

15(5,6)

SOV/66-59-3-30/31

AUTHORS: Zhuchenko, V. and Kopilovich, Ya., Engineers

TITLE: Utilization of Crank Case Heaters for Decreasing Foam Formation in Oil  
/From foreign publications/

PERIODICAL: Kholodil'naya tekhnika, 1959, Nr 3, p 77 (USSR)

ABSTRACT: In the course of its circulation Freon accumulates in a dissolved state in the lubricating oil in the crank case of a compressor. When the compressor is started and an abrupt decrease in pressure follows, the oil forms foam, which escapes from the crank case. The article describes a preventive measure employed abroad which consists in heating the crank case by means of electrical devices.  
There is 1 table and 1 foreign reference.

Card 1/1

ZHUCHENKO, V., inzh.; MIKHAYLOV, V., inzh.

New hydraulic cutterhead. Rech. transp. 21 no.1:32-34 Ja '62.  
(MIRA 16:8)  
(Dredging machinery)

ZHUCHENKO, V., inzh.

Efficient evaporators for refrigerators. Khol.tekh. 35  
no.6:66-68 N-D '58. (MIRA 12:1)  
(Refrigerators) (Kharkov--Evaporating appliances)

ZHUCHENKO, V.

ZHUCHENKO, V., inzh.

Hydraulic electric switch operated by solar radiation. Mor. flot  
17 no.12:22-23 D '57. (MIRA 11:1)

1. Upravleniye Kaspreydmorputi.  
(Beacons) (Automatic control)

EL'KIN, I., inzhener; ZHUCHENKO, V., inzhener

Wear resistance of compressors of the FAK type of Freon refrigerating machines. Khol.tekh. 32 no.1:59-62 Ja-Mr '55. (MLBA 8:7)  
(Compressors)

ZHUCHENKO, V., inzhener.

Rope motion measuring device. Mor. flot 17 no.4:24 Ap '57. (MLRA 10:4)

1. Upravleniye Kaspmorputi.

(Dredging machinery--Attachments) (Measuring instruments)

ZUCHENKO, V.

ZUCHENKO, V., inzhener; EL'KIN, I., inzhener.

Application of steel fins and pipes in air-cooled freon condensers. Khel.tekh. 31 no.2:69 Ap-Je '54. (MLR 7:7)  
(Condensers (Vapors and gases))

ZHUCHENKO, V., insh.

Defrosting in commercial refrigerating equipment (from "Refrigerating Engineering," no.7, 1957). Khol.tekh. 37 no.5:72-73 S-0 '60.

(MIRA 13:10)

(Refrigeration and refrigerating machinery)

ZHUCHENKO, V.A., inzh.

Hydraulic earth loosening cutterheads for suction dredges.  
Biul.tekh.-ekon. inform. Tekh.upr.Min.mor.flota 7 no.10:97-101  
'62. (MIRA 16:9)  
(Dredging machinery)

ZHUCHENKO, V.A., inzh.

From the practices of stripping by hydraulic mining methods.  
Gor.zhur., no.12:26-29 D. '63. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh  
stroitel'nykh materialov i gidromekhanizatsii Akademii stro-  
itel'stva i arkhitektury SSSR, Stavropol'.

ZHUCHENKO, V.A., inzh.

Effective method of increasing the productivity of suction dredges.  
Mekh. stroi. 19 no.6:3-5 Je '62. (MIRA 17:2)

ZHUCHENKO, V.A., inzh.

From the practices of stripping by hydraulic mining methods. Gor.  
zhur. no.12:26-29 D '63. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroytel'nykh materialov i gidromekhanizatsii Akademii stroitel'stva i arkhitektury SSSR, Stavropol'.

MIKHAYLOV, V.I., inzh.; ZHUCHENKO, V.A., inzh.

Production studies of a cutting and hydraulic loosener with forced supply of soil to the suction unit. Sbor.trud.VNIINerud no.1:96-107 '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'nykh materialov i gidromekhanizatsii.  
(Dredging machinery)

ZHUCHENKO, V.A., inzh.

Laboratory studies of the functioning of the cutting and hydraulic scarifier. Sbor. trud VNIINerud no.2:37-52 '62. (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'-nykh materialov i gidromekhanizatsii.  
(Earthmoving machinery—Testing)

ZHUCHENKO, V.A.; FILIPPOVA, V.N.

Frying apparatus for the preparation of potato chips. (from U.S.  
patent no.2812254). Kons.i ov.prom. 16 no.1:39 Ja '61.  
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